

**SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL
SCIENCES AND TECHNOLOGY
TRIVANDRUM**

**Entrance Examination
Academic session 2017**

PROGRAMME:- MCh Vascular Surgery

Time: 90 minutes

Maximum marks: 100

1. Grey Turner's sign is classically found in
 - A. Acute cholecystitis
 - B. Choledocholithiasis
 - C. Acute appendicitis
 - D. Acute haemorrhagic pancreatitis

2. Surgery for periductal mastitis is
 - A. Hadfield's operation
 - B. Patey's mastectomy
 - C. Modified radical mastectomy
 - D. Simple mastectomy

3. Most probable malignancy that develops in a case of long standing goitre is
 - A. Anaplastic Ca
 - B. Papillary Ca
 - C. Medullary Ca
 - D. Follicular Ca

4. Screening method for medullary carcinoma thyroid is
 - A. S. calcium
 - B. S. alkaline phosphate
 - C. S. calcitonin
 - D. S. acid phosphatase

5. Name of the surgeon who revolutionized surgical practice in 20th century
 - A. Theodor Billroth
 - B. Theodor Kocher
 - C. William Halstead
 - D. John Warren Collins

6. Regarding Septic shock, choose incorrect -

- A. high cardiac output with warm peripheries
- B. lacticacidemia even with catecholamine infusion
- C. Reduced mitochondrial availability of oxygen and metabolites leads to dysfunction of normal cellular biochemical processes.
- D. Only >48 hrs of septic shock and lacticacidemia may lead to death

7. Choose the incorrect statement about platelets -

- A. Normal platelet counts ranges from 1.5 to 4.0 lakh/mm³
- B. with counts 40000-100000, trauma or surgery leads to excessive bleeding
- C. Spontaneous bleeding does not occur below a platelet count of 20000
- D. Platelet pheresis may be more beneficial than platelet rich plasma in counts < 10000

8. Normal serum sodium level being 138-142 mEq/l, Choose the right answer for severe hyponatremia,

- A. <130mEq
- B. <120mEq
- C. <110mEq
- D. <100mEq

9. In a patient following GI surgery, below which level of albumin is an indicator of mortality

- A. <3gm%
- B. <2gm%
- C. <2.5gm%
- D. <1.5gm%

10. Identify the inappropriate one in wound healing process

- A. Inflammation
- B. Proliferation

- C. Maturation
- D. Scar formation

11. Commonest cause for pyogenic liver abscess is

- A. Aspiration
- B. Hematogenous spread from distant site
- C. Direct contact
- D. Lymphatic spread

12. Splenectomy is most useful in-

- A. Sickle cell anemia
- B. Thalassemia
- C. Hereditary spherocytosis
- D. Acquired autoimmune haemolytic anemia

13. Non progressive contraction of esophagus is

- A. Primary
- B. Secondary
- C. Tertiary
- D. Quaternary

14. Elective surgery is best avoided in which of the following class according to anesthesia risk categories

- A. Class 5
- B. Class 3
- C. Class 4
- D. Class 2

15. Surgical site infections may be predisposed in contaminated wounds to the extent of

- A. a. 1-5%
- B. b. 3-11%

- C. c. 10-17%
- D. d. >27%

16. Choose the inappropriate about factors associated with wound dehiscence

- A. Technical error in fascial planes
- B. Emergency surgery
- C. In hospital infection
- D. Female gender

17. Indication for neck exploration is not one of the following

- A. Expanding hematoma
- B. Transient ischemic attack following trauma
- C. External hemorrhage
- D. Diminished carotid pulse

18. Which one is not true about hyperplastic ileocaecal tuberculosis

- A. Mass in Rt iliac fossa
- B. Common site is ileo caecal region
- C. X-ray shows indrawing of caecum from ileum
- D. Conservative management is treatment of choice

19. Peutz Jeghers polyps present most commonly in

- A. Rectum
- B. Colon
- C. Esophagus
- D. Jejunum

20. Borchardt's triad is classically seen in

- A. Gastric Volvulus
- B. Choledocholithiasis

- C. Carcinoma Pancreas
- D. Portal hypertension

21. In case of new born the commonest cause of intestinal obstruction is

- A. Annular pancreas
- B. Duodenal atresia
- C. Jejunal atresia
- D. Oesophageal atresia

22. Most common malignancy affecting spleen is

- A. Angiosarcoma
- B. Hamartoma
- C. Secondaries
- D. Lymphoma

23. Most common site of opening of ectopic ureter is

- A. Prostatic urethra
- B. Ejaculatory duct
- C. Seminal vesicle
- D. Vas-deference

24. Carpal tunnel syndrome characteristically affects which of the following nerves

- A. Ulnar nerve
- B. Radial nerve
- C. Median nerve
- D. Brachial nerve

25. Ulcers that develop in burn tissue is

- A. Marjolin's
- B. Rodent
- C. Melanoma

D. Curlings

26. Blood clot, the size of a clenched fist is roughly equal to

- A. 100ml
- B. 500ml
- C. 750ml
- D. 1000ml

27. Demeester score is gold standard test for evaluation of

- A. Diffuse oesophageal spasm
- B. GERD
- C. Achalasia cardia
- D. Nutcrackeroesophagus

28. Head and neck involvement in burns in infant is

- A. 9%
- B. 18%
- C. 27%
- D. 36%

29. In 3rd degree burns all are seen except

- A. Vesicles are absent
- B. Painful
- C. Leathery skin
- D. Reddish due to Hb infiltration

30. Gastrinoma triangle is bounded by all except

- A. Junction of cystic duct and common bile duct
- B. Second and third part of duodenum
- C. Third and fourth part of duodenum
- D. Junction of head and neck of pancreas

31. Commonest injured organ in blast injury is

- A. Lung
- B. Liver
- C. Spleen
- D. Pancreas

32. All are radio opaque except

- A. Oxalate
- B. Uric acid
- C. Cystine
- D. Mixed

33. In children most common type of polyp is

- A. Juvenile polyp
- B. Solitary polyp
- C. Familial polyp
- D. Multiple adenomatous polyp

34. Which of the following is not a component of Reynold's Pentad in toxic cholangitis?

- A. Right upper quadrant pain
- B. Confusion
- C. Septic shock
- D. Markedly elevated transaminases

~~35.~~ Mucinous ascitis is seen in

- A. Stomach Ca
- B. Tuberculosis
- C. Nephrotic syndrome
- D. Cirrhosis

36. Most common organ involved in retroperitoneal fibrosis is
- A. Aorta
 - B. Ureter
 - C. Inferior vena cava
 - D. Sympathetic plexus
37. Peritoneal mice is
- A. Pseudomyxoma peritonei
 - B. Appendices epiploicae
 - C. Peritoneal seedings in tumour
 - D. Endometriosis
38. A 60yrs old smoker presented with history of painless hematuria for one day. The investigation of choice would be
- A. Urine routine and microscopy
 - B. Plain x-ray KUB
 - C. USG KUB
 - D. Urine for malignant cytology
39. Reactionary hemorrhage occurs with in
- A. 1-2 days
 - B. 2-7 days
 - C. <24hours
 - D. After 7 days
40. Commonest form of actinomycosis is
- A. Fascio cervical
 - B. Thoracic

- C. Right iliac fossa
- D. Liver

41. Transplantation of which one of the following organs are associated with hyper acute rejection?

- A. Heart
- B. Liver
- C. Lungs
- D. Kidney

42. Bedsore is an example of

- A. Tropical ulcer
- B. Trophic ulcer
- C. Venous ulcer
- D. Post thrombotic ulcer

43. The commonest clinical pattern of basal cell carcinoma is

- A. Nodular
- B. Morpheaform
- C. Superficial
- D. Keratotic

44. Most common neoplasm of parotid gland is-

- A. Squamous cell carcinoma
- B. Adenocystic carcinoma
- C. Mucoepidermoid
- D. Pleomorphic adenoma

45. Most common tumour in posterior mediastinum is

- A. Neurofibroma
- B. Lymphoma

- C. Thymoma
- D. Gastroenteric cyst

46. All are seen in pancoast syndrome except

- A. Brachial plexus involvement
- B. Dyspnoea
- C. Clubbing
- D. Myasthenia gravis

47. Gleason's staging is done in

- A. Ca prostate
- B. Ca pancreas
- C. Ca kidney
- D. Ca cervix

48. Migratory thrombophlebitis is associated with the following malignancies except

- A. Lung cancer
- B. Prostate cancer
- C. Pancreas cancer
- D. Gastro-intestinal cancer

49. The commonest site of lymphoma in the gastrointestinal system is

- A. Small bowel
- B. Colon
- C. Stomach
- D. Oesophagus

50. Whipples triad is seen in

- A. Glucagonoma
- B. Insulinoma
- C. Somatostatinoma

D. Ca pancreas

51. The cause of Type II endoleak

- A. Tear in the graft fabric
- B. Perigraft flow at the aortic neck
- C. Porosity of graft fabric
- D. Retrograde flow from a patent branch vessel

52. According to CEAP classification, chronic venous insufficiency belong to which class

- A. Class 1
- B. Class 2
- C. Class 3
- D. Class 4

53. Earliest detectable lesion of atherosclerosis is

- A. Fibrous plaques
- B. Subendothelial monocytes
- C. Fatty streak
- D. Intimal smooth muscle deposition

54. The best initial treatment of groin pseudoaneurysm after angiography is

- A. Surgical repair
- B. Ultrasound guided compression
- C. Endovascular stenting
- D. Observation

55. "Herald bleed" is seen in

- A. Aortocaval fistula
- B. Aortoenteric fistula
- C. Intraperitoneal rupture of abdominal aortic aneurysm
- D. Endoleak after endovascular repair of aortic aneurysm

56. Mutation of fibrillin gene coded on chromosome 15 is responsible for which condition?

- A. Ehler-Danlos syndrome
- B. Loeys-Dietz syndrome
- C. Von Recklinhausen syndrome
- D. Marfan syndrome

57. As per the Crawford classification of thoraco-abdominal aortic aneurysms, an aortic aneurysm extending from just beyond left subclavian artery to aortic bifurcation is?

- A. Type I
- B. Type II
- C. Type III
- D. Type IV

58. A 32 year old male is diagnosed of acute iliofemoral DVT. What is the ideal line of management?

- A. Anticoagulation alone
- B. Systemic thrombolysis
- C. Catheter-directed thrombolysis
- D. Venous thrombectomy

59. Which of the following is predominantly involved in Charcots arthropathy?

- A. Forefoot
- B. Midfoot
- C. Hindfoot
- D. Ankle

60. Neo Aorto-Iliac system (NAIS) is?

- A. Use of bilateral femoral veins for reconstruction of aorto-iliac segment
- B. Use of prosthetic graft for reconstruction of aorto-iliac segment
- C. Use of aortic homograft for reconstruction of aorto-iliac segment

D. Use of covered stents for reconstruction of aorto-iliac segment

61. Which wavelengths in Endovenous laser ablation (EVLA) produces the least skin bruising?

- A. 840nm
- B. 980nm
- C. 1240nm
- D. 1470nm

62. Which of these imaging techniques is safest in patients with renal disease?

- A. Contrast enhanced CT angiography
- B. Carbon dioxide angiography
- C. MR angiography using Gadolinium contrast
- D. Catheter digital subtraction angiography

63. Shyanoya criteria is used for the diagnosis of which arteriopathy?

- A. Takayasu's disease
- B. Raynaud's disease
- C. Buerger's disease
- D. Behcet's disease

64. The right common carotid artery develops from which of the embryological aortic arches?

- A. 3rd arch
- B. 4th arch
- C. 5th arch
- D. 6th arch

65. A Cimino-Brescia-Appel AV fistula is created between:

- A. Radial artery and cephalic vein
- B. Radial artery and basilic vein
- C. Brachial artery and cephalic vein

D. Brachial artery and basilic vein

66. Which of these thrombophilic states have a higher incidence of arterial thrombosis?

- A. Protein C deficiency
- B. Hyperhomocysteinemia
- C. Factor V Leiden mutation
- D. Anti-thrombin III deficiency

67. What is the universally accepted size threshold for deciding intervention in an asymptomatic abdominal aortic aneurysm?

- A. 4 cm
- B. 4.5 cm
- C. 5 cm
- D. 5.5 cm

68. According to the DeBakey classification of aortic dissections, a aortic dissection with an entry tear in post-subclavian descending thoracic aorta with dissection extending upto the aortic bifurcation is

- A. Type I
- B. Type II
- C. Type IIIA
- D. Type IIIB

69. Who was awarded the ^{NOBEL} ~~noble~~ prize in Vascular Surgery

- A. Alexis Carrel
- B. John Gibbons
- C. Alfred Blalock
- D. Denten Cooley

70. 'String of Beads' sign on angiography is classically seen in which pathology?

- A. Takayasu arteritis

- B. Thrombo-angitis obliterans
- C. Fibro-muscular dysplasia
- D. Giant cell arteritis

71. What is the most common cause of acute mesenteric ischemia?

- A. Cardio-embolic
- B. Thrombotic
- C. Traumatic
- D. Vaso-spastic (NOMI)

72. Arterial injury as a result of blunt trauma is especially likely with which of the following injuries?

- A. Anterior Shoulder dislocation
- B. Posterior knee dislocation
- C. Mid-femoral shaft fracture
- D. Clavicular fracture

73. What is not an indication to place an IVC filter?

- A. Patient who requires DVT prophylaxis/treatment who has a high risk of internal/external bleeding
- B. Recurrent VTE on therapeutic anticoagulation
- C. Patient who required DVT prophylaxis and has developed bleeding complications on anticoagulation
- D. Chronic ilio-femoral DVT

74. Which of the following endovascular technique is not useful as a treatment of chronic total occlusions of the superficial femoral artery?

- A. Subintimal angioplasty
- B. Catheter directed thrombolysis
- C. Directional atherectomy
- D. Cryoplasty

75. Which of the following is not a classical indication to evaluate for renal artery stenosis?
- A. Requirement of more than 3 antihypertensive drugs for control of hypertension
 - B. Development of renal dysfunction in a 60 year-old diabetic
 - C. Young patient (<30years) with episodes of 'flash' pulmonary edema
 - D. Increasing serum creatinine on administration of ACE inhibitors
76. Shamblin classification is used for?
- A. Carotid dissections
 - B. Carotid body tumours
 - C. Carotid artery stenosis
 - D. Carotid aneurysms
77. What is the recommended treatment for acute uncomplicated type B aortic dissection?
- A. Open surgical repair
 - B. Endovascular fenestration
 - C. Thoracic endovascular aortic repair (TEVAR)
 - D. Medical management
78. Who is credited for performing the first endovascular aneurysm repair (EVAR)?
- A. Micheal Dake
 - B. Juan Parodi
 - C. Charles Dotter
 - D. Thomas Fogarty
79. What is Cilastazol?
- A. Methyl xanthine derivative
 - B. ADP receptor antagonist
 - C. Cyclo-oxygenase (COX) inhibitor
 - D. Phosphodiesterase III inhibitor

80. A Juxta-renal abdominal aortic aneurysm is defined as?
- A. One of the two renal arteries arising from aneurysm
 - B. Both renal arteries arising from aneurysms
 - C. Aneurysm closely abutting but not involving renal ostia
 - D. Aneurysm involving all the viscera-renal arteries
81. Which of the following is not a mechanical thrombectomy device?
- A. Silverhawk
 - B. Angiojet
 - C. Arrow-Trerotola
 - D. Trellis
82. May-Thurner-Cockett syndrome is?
- A. DVT of Left iliac vein due to compression by left iliac artery
 - B. DVT of Right iliac vein due to compression by right iliac artery
 - C. DVT of Left iliac vein due to compression by right iliac artery
 - D. DVT of Right iliac vein due to compression by left iliac artery
83. Which among the following is a contraindication to carotid artery stenting
- A. Previous neck irradiation
 - B. Recurrent stenosis
 - C. High lesions above C2 vertebrae
 - D. Severely angulated Type III aortic arch
84. What is the investigation of choice for diagnosing aorto-enteric fistula?
- A. Barium meal follow-through
 - B. Upper GI endoscopy
 - C. CT angiography
 - D. Tagged RBC scintigraphy
85. Which is the most common site of peripheral arterial aneurysms?

- A. Femoral artery
- B. Popliteal artery
- C. Brachial artery
- D. Subclavian artery

86. What is not a common feature of Takayasu arteritis?

- A. Female preponderance
- B. Occlusive lesions of brachio-cephalic vessels
- C. Elevated ESR
- D. Intracranial aneurysms

87. Which conduit provides the best patency rates for femoro-popliteal bypass grafting?

- A. Polytetrafluoroethylene (PTFE)
- B. Polyester (Dacron)
- C. Human umbilical vein graft
- D. Autologous great saphenous vein

88. Which of the following is a direct thrombin inhibitor?

- A. Dabigatran
- B. Fondaparinux
- C. Rivaroxaban
- D. Dalteparin

89. What the recommended cut-off value of HbA1C to ascertain adequacy of glycemic control in a patient with peripheral vascular disease?

- A. 5.0
- B. 6.0
- C. 7.0
- D. 8.0

90. The most game changing surgical technique of ligation of blood vessels was proposed by

- A. Andreas Vesalius
- B. Ambrose Pare
- C. John Hunter
- D. Joseph Lister

91. About Deep vein thrombosis, choose the inappropriate,

- A. Virchow's triad plays important role in DVT predisposition.
- B. Trousseau's sign may not be associated with DVT as considered in the past.
- C. Antithrombin III and protein S deficiency lead to DVT
- D. Cancer and paralysis of lower limb(s) have high propensity to develop DVT

92. All of the following are randomized controlled trails pertaining to endovascular aneurysm management except

- A. CREST
- B. EVAR 1
- C. DREAM
- D. OVER

93. Stent graft is made of prosthetic material supported by

- A. Nitinol
- B. Steel Titanium Alloy
- C. Platinum
- D. Carbon

94. Ischemic stroke related to carotid artery atherosclerosis, the lesion is found in

- A. Origin of common carotid artery
- B. Mid CCA
- C. Carotid bulb of ICA
- D. Intracranial cerebral arteries

95. Choose the most appropriate treatment in an 80yr old patient presenting with TIA

- A. Carotid endarterectomy
- B. Carotid artery stenting
- C. Excision and vein bypass
- D. Only medical management

96. Commonest domain for aneurysm formation of the aorta is

- A. Thoracic aorta
- B. Infrarenal abdominal aorta
- C. Ascending aorta
- D. Arch of aorta

97. The usual presentation of abdominal aortic aneurysm is

- A. Back ache
- B. Rupture
- C. Constipation alternating with diarrhea
- D. Asymptomatic

98. A 40yr old man who is a smoker comes to the surgeon with h/o rest pain and bluish discolouration of little toe. Probable diagnosis would be

- A. Aortoiliac occlusive disease
- B. Buerger's disease
- C. Popliteal entrapment syndrome
- D. Raynaud's phenomenon

99. Following could be the inappropriate modality for peripheral arterial occlusive disease with good distal run off

- A. Bypass grafting
- B. Angioplasty with stenting
- C. Best medical management
- D. Lumbar sympathectomy

100. Common cause for recurrence of symptoms following varicose vein therapy is,
- A. Inappropriate surgical technique
 - B. Perforator incompetence
 - C. Recanalization of veins
 - D. Smoking

ANSWER KEY – MCh Vascular Surgery (Academic session 2017)

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|-------|-------|--------|
| 1. D | 35. A | 69. A |
| 2. A | 36. B | 70. C |
| 3. D | 37. B | 71. A |
| 4. C | 38. C | 72. B |
| 5. C | 39. C | 73. D |
| 6. D | 40. A | 74. B |
| 7. C | 41. D | 75. B |
| 8. B | 42. B | 76. B |
| 9. D | 43. A | 77. D |
| 10. D | 44. D | 78. B |
| 11. B | 45. A | 79. D |
| 12. C | 46. D | 80. C |
| 13. C | 47. A | 81. A |
| 14. B | 48. B | 82. C |
| 15. C | 49. C | 83. D |
| 16. D | 50. B | 84. C |
| 17. B | 51. D | 85. B |
| 18. D | 52. D | 86. D |
| 19. D | 53. C | 87. D |
| 20. A | 54. B | 88. A |
| 21. B | 55. B | 89. C |
| 22. D | 56. D | 90. B |
| 23. A | 57. B | 91. B |
| 24. C | 58. C | 92. A |
| 25. A | 59. B | 93. A |
| 26. B | 60. A | 94. C |
| 27. B | 61. D | 95. A |
| 28. B | 62. B | 96. B |
| 29. B | 63. C | 97. D |
| 30. C | 64. A | 98. B |
| 31. A | 65. A | 99. D |
| 32. B | 66. B | 100. B |
| 33. A | 67. D | |
| 34. D | 68. D | |